GENERAL STRUCTURAL NOTES:

1. UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE FABRICATION, TESTING, AND CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE FOLLOWING NOTES. SHOULD CODES OR STANDARDS CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. FOR THE FOLLOWING REFERENCE CODES AND STANDARDS, ONLY THE LATEST EDITION IS APPLICABLE, UNLESS OTHERWISE INDICATED:
   - (A) AMERICAN CONCRETE INSTITUTE (ACI)
   - (B) AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
   - (C) AMERICAN IRON AND STEEL INSTITUTE (AISI)
   - (D) AMERICAN STANDARD FOR TESTING AND MATERIALS (ASTM)
   - (E) AMERICAN WELDING SOCIETY (AWS)
   - (F) RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC)
   - (G) STEEL STRUCTURES PAINTING COUNCIL (SSPC)
   - (H) OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
3. SPECIFIED MATERIALS INCLUDING GROUTS, SEALANTS, ANCHORAGE, MECHANICAL DEVICES, ETC. SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS SET OUT IN THE SPECIFICATIONS.
4. STRUCTURAL DRAWINGS SHALL BE USED AND INTERPRETED IN CONJUNCTION AND COORDINATION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, SHOP DRAWINGS, AND SPECIFICATIONS.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS SET OUT IN THE ARCHITECT'S DRAWINGS BEFORE COMMENCING WORK.
6. CONTRACTOR SHALL VERIFY ALL CAMBER, DEPRESSIONS, SLOPES, OPENINGS, PENETRATIONS, ETC. THROUGH OR WITHIN STRUCTURAL ELEMENTS. ANY STRUCTURAL ELEMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.
7. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING ANY WORK. ANY INTERFERENCE OR CONFLICT SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER OF RECORD.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL DIMENSIONS AND FIT-UP OF THE STRUCTURE, INCLUDING BUT NOT LIMITED TO, VERIFYING ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE COMMENCING WORK AND ALL AS-BUILT CONDITIONS AS THE WORK PROGRESSES.
9. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN, ERECTION, PLACEMENT, MAINTENANCE, DURATION AND REMOVAL OF ANY SHORING, RE-SHORING, BACK-SHORING, BRACING, TIE-BACKS, OR OTHER TEMPORARY SUPPORT STRUCTURES REQUIRED TO SUPPORT ANY PART OF THE NEW OR EXISTING CONSTRUCTION OR SURROUNDING IMPROVEMENTS DURING THE ENTIRE CONSTRUCTION PROCESS TO ENSURE THE SAFETY AND STABILITY OF THE STRUCTURE.
10. ALL WORK AREAS SHALL BE KEPT NEAT, CLEAN, AND SAFE AT ALL TIMES BY THE CONTRACTOR. TRASH AND DEMOLISHED MATERIALS SHALL NOT BE ALLOWED TO ACCUMULATE AT THE SITE DURING EXECUTION OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS. ALL DEBRIS SHALL BE PROPERLY AND LEGALLY DISPOSED OF. ALL ASPECTS OF JOB SITE SAFETY ARE COMPLETELY THE RESPONSIBILITY OF THE CONTRACTOR.
11. STEEL FRAMES ARE "NON-SELF SUPPORTING". ADEQUATE TEMPORARY SUPPORT SHALL BE PROVIDED BY THE CONTRACTOR UNTIL REQUIRED CONNECTIONS OR ELEMENTS ARE INSTALLED AND COMPLETED.
12. DETAILS SHOWN ON DRAWINGS ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.
13. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL AND CHARGE OF THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, AND FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

FOUNDATION NOTES:

1. FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT BY SOUTHERN EARTH SCIENCES, REPORT #: B24-175 DATED 01-15-25.
2. PILE TYPE:

   PILING SHALL BE ONE PIECE TREATED TIMBER PILING (CCA 0.80) SHOWN THUS ● AND SHALL CONFORM TO ANSI 05.1 CLASS 5 AND HAVE A MINIMUM TIP DIAMETER OF 6 INCHES AND A MINIMUM BUTT DIAMETER OF 8 INCHES MEASURED 3 FEET FROM THE END OF THE PILE. THE TIPS OF ALL PILES SHALL BE DRIVEN TO AN ELEVATION OF 35 FEET BELOW EXISTING GRADE (VERIFY WITH GEOTECH REPORT).

   - (A) DESIGN LOAD = 5 TONS (VERIFY WITH GEOTECH REPORT)
   - (B) CUT-OFF TREATMENT: BRUSH TREAT TOP OF PILE WITH COPPER NAPTHENATE CONFORMING TO A.W.P.A. SPECIFICATION M4
   - (C) HAMMER:

     SINGLE ACTING AIR HAMMER DELIVERING 7,250 FT. LBS. OF ENERGY PER BLOW, VIBRATORY OR COMPACTION HAMMER NOT PERMITTED
   - (D) DRIVE TO A REFUSAL OF 12 BLOWS PER FOOT MAX
   - (E) PILE DRIVER TO MONITOR PILE INSTALLATION FOR VIBRATION AND PROVIDE VIBRATION REPORTS TO ENGINEER OF RECORD.
3. UNLESS SHOWN OTHERWISE, GRADE BEAMS SHALL BE CENTERED ON COLUMNS AND WALLS.
4. GRADE BEAMS MAY BE EARTH FORMED PROVIDED DIMENSIONAL TOLERANCES LISTED IN THE APPLICABLE ACI CODES ARE ADHERED TO.
5. PLACE 10 MIL. WATERPROOF MEMBRANE BENEATH ALL INTERIOR SLABS AND BEAMS ON GRADE. LAP 12" TO ACCOMMODATE CONCRETE POURING DIRECTION.
6. ALL SLABS, BEAMS, AND FOOTINGS NOT PILE-SUPPORTED SHALL BE SUPPORTED ON EXISTING UNDISTURBED SOIL OR NON-EXPANSIVE TYPE FILL COMPACTED TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY.

   DESIGN SOIL PRESSURE = 1,500 LBS. PER SQ. FT.

CONCRETE NOTES:

1. APPLICABLE CODES OR STANDARDS:

   ALL DESIGN, FABRICATION, TESTING, AND ERECTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:

   - (A) ACI 117 – SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS
   - (B) ACI 301 – SPECIFICATIONS FOR STRUCTURAL CONCRETE
   - (C) ACI 304 – RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE
   - (D) ACI 308 – RECOMMENDED PRACTICE FOR CURING CONCRETE
   - (E) ACI 315 AND 315R – DETAILS AND DETAILING OF CONCRETE REINFORCEMENT
   - (F) ACI 316 – RECOMMENDED PRACTICE FOR CONSTRUCTION OF CONCRETE PAVEMENTS AND CONCRETE BASES
   - (G) ACI 318 – BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
   - (H) ACI 336 – SUGGESTED DESIGN AND CONSTRUCTION PROCEDURES FOR PIER FOUNDATIONS
   - (I) ACI 347 – RECOMMENDED PRACTICE FOR CONCRETE FORM WORK
   - (J) ASTM STANDARDS FOR THE MATERIALS LISTED.

CONCRETE NOTES (CONT.):

2. MATERIALS:

   MATERIALS SHALL MEET THE SPECIFICATIONS LISTED IN THIS SECTION (UNLESS NOTED OTHERWISE):

   - (A) CONCRETE SHALL A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
   - (B) CONCRETE SHALL BE NORMAL WEIGHT (APPROXIMATELY 150 LBS. PER CUBIC FT.)
   - (C) PORTLAND CEMENT SHALL MEET ASTM C150 TYPE II.
   - (D) AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL MEET ASTM C33.
   - (E) REINFORCING STEEL SHALL MEET ASTM A615 GRADE 60.
   - (F) WELDED WIRE FABRIC (WWF) SHALL MEET ASTM A185.
   - (G) STEEL PLAIN WIRE SHALL MEET ASTM A82.
   - (H) STYROFOAM USED FOR FILLING VOIDS UNDER CONCRETE SHALL BE AMOFORM EXTRUDED POLYSTRENE INSULATION BOARD BY GEOFOAM FOAM PRODUCTS CO. OR APPROVED EQUAL. MINIMUM COMPRESSIVE STRENGTH SHALL BE 30 PSI.
3. SLUMPS:

   CONCRETE SLUMPS SHALL MEET THE SPECIFICATIONS LISTED IN THIS SECTION (UNLESS NOTED OTHERWISE):

   - (A) CONCRETE WITHOUT WATER-REDUCING ADMIXTURES OR PRIOR TO THEIR ADDITIONS SHALL HAVE A MAXIMUM SLUMP OF 5 INCHES.
   - (B) CONCRETE WITH LOW TO MODERATE RANGE WATER-REDUCING ADMIXTURES SHALL HAVE A MAXIMUM SLUMP OF 6 INCHES.
   - (C) CONCRETE WITH HIGH RANGE WATER-REDUCING ADMIXTURES SHALL HAVE A MAXIMUM SLUMP OF 8 INCHES.
4. EXPOSED EDGE CONDITIONS:
   - (A) EXPOSED EDGES OF CONCRETE ABOVE GRADE SHALL BE CHAMFERED 3/4" AT 45 DEGREES (AS SHOWN ON SECTIONS IF REQUIRED).
5. BONDING:

   BONDING SHALL MEET THE SPECIFICATIONS LISTED IN THIS SECTION (UNLESS NOTED OTHERWISE):

   - (A) CONSTRUCTION JOINTS BETWEEN NEW AND HARDENED CONCRETE SHALL BE CLEAN, FREE OF LAITANCE, AND INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4".
   - (B) FOR INSTALLATION OF DOWELS IN HARDENED CONCRETE, CONTRACTOR SHALL DRILL AND EPOXY WITH HILTI HY-HIT 200 OR APPROVED EQUAL.
   - (C) FOR INSTALLATION OF DOWELS IN BRICK MASONRY, CONTRACTOR SHALL DRILL AND EPOXY WITH HILTI HY-HIT 270 OR APPROVED EQUAL.
6. CONCRETE PROTECTION FOR REINFORCEMENT:

   CONTRACTOR SHALL PROVIDE PROTECTIVE COVER FOR REINFORCING LISTED IN THIS SECTION (UNLESS NOTED OTHERWISE):

   - (A) 3" FOR CONCRETE GRADE BEAMS AND FOOTINGS DEPOSITED DIRECTLY AGAINST THE GROUND.
   - (B) 2" FOR FORMED CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND.
   - (C) 1" FOR CONCRETE SLABS AND WALLS NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND
   - (D) 1 1/2" FOR CONCRETE BEAMS, GIRDERS, AND COLUMNS NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND.
7. PLACEMENT:

   PLACEMENT SHALL MEET THE SPECIFICATIONS LISTED IN THIS SECTION (UNLESS NOTED OTHERWISE):

   - (A) BARS SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING CONCRETE PLACEMENT.
   - (B) REINFORCING BARS OR FABRIC ON GRADE SHALL BE CHAIRED WITH 3000 PSI CONCRETE BRICKETTES SPACED ADEQUATELY TO SUPPORT THE REINFORCING, BUT NOT GREATER THAN 3'-0" O.C. EACH WAY. AT RAISED FLOORS USE METAL CHAIRS.
   - (C) PROVIDE A 90 DEGREE HOOK ON ALL TOP REINFORCING IN ALL BEAMS AT DISCONTINUOUS ENDS AND LAP SPLICE 30 BAR DIAMETERS AT MID-SPAN.
   - (D) CONTINUOUS BOTTOM BARS SHOULD BE LAP SPLICED 6" AT CENTER OF SUPPORT.
   - (E) LAP ALL WELDED WIRE FABRIC ONE WIRE SPACING PLUS 6 INCHES.
   - (F) COLUMN VERTICAL REINFORCING SHALL HAVE STANDARD HOOKS AT THE TOP OF THE UPPERMOST SECTION OF EACH COLUMN.
   - (G) PROVIDE CORNER BARS AT EACH OUTSIDE CORNER FOR EACH HORIZONTAL BAR IN WALLS AND BEAMS. HOOK INSIDE BAR IN WALLS AT ENDS.
   - (H) PLACEMENT OF SLEEVES, HOLES, OR OPENINGS THROUGH BEAMS, FOOTINGS, PILE CAPS, SLABS, ETC. IS NOT PERMITTED WITHOUT ENGINEER OF RECORD'S APPROVAL
   - (I) WHERE POSSIBLE, EXISTING REINFORCEMENT SHALL NOT BE CUT, BENT, OR DAMAGED. WHENEVER REINFORCEMENT IS CUT, DAMAGED OR BENT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD. REINFORCEMENT SHALL BE REPAIRED OR REPLACED AS DIRECTED.
8. SPLICES:

   REINFORCEMENT STEEL SPLICES SHALL MEET THE SPECIFICATIONS LISTED IN THIS SECTION (UNLESS NOTED OTHERWISE):

   - (A) REINFORCING BARS SHALL BE SPLICED WITH CLASS "B" LAP SPLICES.
   - (B) PROVIDE REQUIRED LAP LENGTHS FOR CORNER BARS, TEMPERATURE BARS IN SLAB, INTERMEDIATE HORIZONTAL BARS IN WALLS AND BEAMS, ETC.
9. EXPANSION JOINTS AND JOINT SEALERS:

   EXPANSION JOINTS SHALL MEET THE SPECIFICATIONS LISTED IN THIS SECTION (UNLESS NOTED OTHERWISE):

   - (A) EXPANSION JOINT MATERIAL SHALL BE 1/2" THICK SEAL-TIGHT ASPHALT EXPANSION JOINT FILLER OR APPROVED EQUAL.
   - (B) EXPANSION JOINTS SHALL SEPARATE PAVING FROM FOUNDATION GRADE BEAMS, FOOTINGS, ETC. AS SHOWN ON DRAWINGS.

CONCRETE NOTES (CONT.):

10. EMBEDMENTS:

    CONDUITS, PIPES, ETC. EMBEDDED IN CONCRETE SHALL MEET THE SPECIFICATIONS LISTED IN THIS SECTION (UNLESS NOTED OTHERWISE):

    - (A) CONTRACTOR SHALL SUBMIT FOR APPROVAL A DIAGRAM DEPICTING ALL CONDUITS, PIPES, OR SLEEVES EMBEDDED IN CONCRETE.
    - (B) CONTRACTOR SHALL FOLLOW ALL REGULATIONS OUTLINED IN THE APPLICABLE ACI CODES FOR EMBEDDING CONDUITS, PIPES, ETC.
    - (C) CONDUITS, PIPES, AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE SHALL BE PERMITTED TO BE EMBEDDED IN CONCRETE WITH THE ENGINEER OF RECORD'S APPROVAL.
    - (D) IT WILL NOT BE PERMITTED TO CUT, BEND, OR DISPLACE THE REINFORCING STEEL FROM ITS PROPER LOCATION TO INSTALL CONDUITS, PIPES, ETC. WITHOUT THE ENGINEER OF RECORD'S APPROVAL.
    - (E) CONDUITS, PIPES, AND SLEEVES PASSING THROUGH A SLAB, BEAM, OR WALL SHALL NOT SIGNIFICANTLY IMPAIR THE STRENGTH OF CONSTRUCTION.
    - (F) OUTSIDE DIMENSIONS FOR SINGLE CONDUITS AND PIPES OR INTERSECTING CONDUITS AND PIPES SHALL NOT OCCUPY MORE THAN AN 1/3 THE OVERALL THICKNESS OF SLAB, BEAM, OR WALL IN WHICH THEY ARE EMBEDDED. ANY CONDUIT OR PIPE LARGER SHALL BE LOCATED BELOW THE RESPECTIVE SLAB OR BEAM.
    - (G) CONDUITS, PIPES, ETC. SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER.
11. QUALITY CONTROL TESTING DURING CONSTRUCTION
    - (A) GENERAL: EMPLOY A TESTING AGENCY TO PERFORM TESTS AND TO SUBMIT TEST REPORTS.
    - (B) SAMPLING AND TESTING FOR QUALITY CONTROL DURING CONCRETE PLACEMENT SHALL INCLUDE THE FOLLOWING, AS DIRECTED BY ARCHITECT.
      1. SAMPLING FRESH CONCRETE: ASTM C 172, EXCEPT MODIFIED FOR SLUMP TO COMPLY WITH ASTM C 94
      2. SLUMP: ASTM C 143; ONE TEST AT POINT OF DISCHARGE FOR EACH DAY'S POUR OF EACH TYPE OF CONCRETE, ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY SEEMS TO HAVE CHANGED.
      3. AIR CONTENT: ASTM C 173, VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE; ASTM C 231, PRESSURE METHOD FOR NORMAL WEIGHT CONCRETE; ONE FOR EACH DAY'S POUR OF EACH TYPE OF AIR-ENTRAINED CONCRETE.
      4. CONCRETE TEMPERATURE: ASTM C 1064; ONE TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEG F (4 DEG C) AND BELOW, WHEN 80 DEG F (27 DEG C) AND ABOVE, AND ONE TEST FOR EACH SET OF COMPRESSIVE-STRENGTH SPECIMENS.
      5. COMPRESSION TEST SPECIMEN: ASTM C 31, ONE SET OF FOUR STANDARD CYLINDERS FOR EACH COMPRESSIVE-STRENGTH TEST, UNLESS OTHERWISE DIRECTED. MOLD AND STORE CYLINDERS FOR LABORATORY-CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURED TEST SPECIMENS ARE REQUIRED.
      6. COMPRESSIVE-STRENGTH TESTS: ASTM C 39; ONE SET FOR EACH DAY'S POUR EXCEEDING 5 CU. YD. PLUS ADDITIONAL SETS FOR EACH 50 CU. YD MORE THAN THE FIRST 25 CU. YD. OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY; ONE SPECIMEN TESTED 7 DAYS, TWO SPECIMENS TESTED AT 28 DAYS, AND ONE SPECIMEN RETAINED IN RESERVE FOR LATER TESTING IF REQUIRED.
    - (C) WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE STRENGTH TESTS FOR A GIVEN CLASS OF CONCRETE, CONDUCT TESTING FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED.
    - (D) TEST RESULTS WILL BE REPORTED IN WRITING TO ARCHITECT, STRUCTURAL ENGINEER, READY-MIX PRODUCER, AND CONTRACTOR WITHIN 24 HOURS AFTER TESTS. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING SERVICE, CONCRETE TYPE AND CLASS, LOCATION OF CONCRETE BATCH IN STRUCTURE, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIX PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7-DAY TESTS AND 28-DAY TEST.
    - (E) NONDESTRUCTIVE TESTING: IMPACT HAMMER, SONOSCOPE, OR OTHER NONDESTRUCTIVE DEVICE MAY BE PERMITTED BY SHALL NOT BE USED AS THE SOLE BASIS FOR ACCEPTANCE OR REJECTION.
    - (F) ADDITIONAL TEST: THE TESTING AGENCY WILL MAKE ADDITIONAL TESTS OF IN-PLACE CONCRETE WHEN TEST RESULTS INDICATE SPECIFIED CONCRETE STRENGTHS AND OTHER CHARACTERISTICS HAVE NOT BEEN ATTAINED IN THE STRUCTURE, AS DIRECTED BY ARCHITECT. TESTING AGENCY MAY CONDUCT TESTS TO DETERMINE ADEQUACY OF CONCRETE BY CORED CYLINDERS COMPLYING WITH ASTM C 42, OR BY OTHER METHODS AS DIRECTED.

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THESE PLANS HAVE BEEN PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, THEY COMPLY WITH ALL LOCAL, REGIONAL AND NATIONAL REQUIREMENTS.
I AM NOT OBSERVING THE WORK.

REVISIONS:

TITLE:

GENERAL STRUCTURAL NOTES

Drawn By: JRN	Checked By: JBH
Date: 03/05/25	Proj. #: 25040

S1.0A

WOOD FRAMING NOTES:

1. APPLICABLE CODES OR STANDARDS:

   ALL DESIGN, FABRICATION, TESTING, AND ERECTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:

   (A) IRC – INTERNATIONAL RESIDENTIAL CODE (IRC)

   (B) AWC – NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS)

   (C) AWC – WOOD FRAME CONSTRUCTION MANUAL FOR ONE AND TWO–FAMILY DWELLINGS (WFCM)

   (D) APA – PLYWOOD DESIGN SPECIFICATION (PDS)

2. MATERIALS:

   MATERIALS SHALL MEET THE SPECIFICATIONS LISTED IN THIS SECTION (UNLESS NOTED OTHERWISE):

   (A) FRAMING LUMBER SHALL BE SOUTHERN PINE GRADE MARKED AND KILN DRIED, NO. 2.

   (B) ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE TREATED. LUMBER, PLYWOOD, PSL, OR OTHER STRUCTURAL WOOD ELEMENTS SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA.

3. CONNECTIONS:

   CONNECTIONS SHALL MEET THE SPECIFICATIONS LISTED IN THIS SECTION (UNLESS NOTED OTHERWISE):

   (A) WOOD MEMBERS (INCLUDING PLYWOOD SHEATHING OR BRACING) SHALL BE CONNECTED OR FASTENED WITH STEEL NAILS, SCREWS, OR BOLTS. ALL EXPOSED NAILS, SCREWS, OR BOLTS SHALL BE POLYMER COATED OR GALVANIZED.

   (B) NO STAPLES SHALL BE PERMITTED.

   (C) WOOD CONNECTIONS SHALL BE IN ACCORDANCE WITH THE FASTENING SCHEDULE LISTED IN IRC 2021 TABLE R602.3.

   (D) MEMBER END PIECES, JOINTS, OR SPLICES SHALL BE OVER SUPPORTS.

STRUCTURAL STEEL NOTES:

1. APPLICABLE CODES OR STANDARDS:

   ALL DESIGN, FABRICATION, TESTING, AND ERECTION SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:

   (A) AISC – STEEL CONSTRUCTION MANUAL (SCM)

   (B) AISC – SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS

   (C) AISC – CODE OF STANDARD PRACTICE FOR BUILDINGS AND BRIDGES

   (D) AISC/RCSC – SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS

   (E) ASTM STANDARDS FOR THE MATERIALS LISTED.

   (F) AISI STANDARDS FOR THE MATERIALS LISTED.

   (G) AWS D1.1 – STRUCTURAL WELDING CODE – STEEL

   (H) SSPC MANUAL OF GOOD PAINTING PRACTICE

   (I) SSPC MANUAL OF SYSTEMS AND SPECIFICATIONS

   (J) STRUCTURAL STEEL FABRICATOR SHALL PARTICIPATE IN THE AISC FABRICATOR CERTIFICATION PROGRAM AND BE CERTIFIED BY AISC FOR – STANDARD BUILDING STRUCTURES (STD).

2. MATERIALS:

   MATERIALS SHALL MEET THE SPECIFICATIONS LISTED IN THIS SECTION (UNLESS NOTED OTHERWISE):

   (A) MACHINE BOLTS SHALL MEET ASTM A307.

   (B) HIGH STRENGTH BOLTS SHALL MEET ASTM A325.

   (C) HEAVY HEX NUTS SHALL MEET ASTM A563.

   (D) FLAT CIRCULAR, SQUARE, OR RECTANGULAR BEVELED WASHERS SHALL MEET ASTM F436.

3. ANCHOR RODS:

   ANCHOR RODS SHALL MEET THE SPECIFICATIONS LISTED IN THIS SECTION (UNLESS NOTED OTHERWISE):

   (A) ANCHOR RODS SHALL MEET ASTM F1554 GRADE 36, S1 (WELDABLE SPECIFICATION)

   (B) ANCHOR RODS SHALL BE UNIFIED COARSE THREAD SERIES AND MEET ANSI B1.1 CLASS 2A.

   (C) ANCHOR RODS SHALL BE HOOKED OR HEADED AT THE UNTHREADED END AND NOT MODIFIED WITHOUT APPROVAL FROM THE STRUCTURAL ENGINEER.

   (D) HEAVY HEX NUTS SHALL MEET ASTM A563.

   (E) FLAT CIRCULAR, SQUARE, OR RECTANGULAR BEVELED WASHERS SHALL MEET ASTM F436.

   (F) ANCHOR ROD THREADS SHALL BE CHASED AFTER GALVANIZING.

4. CONNECTIONS:

   CONNECTIONS SHALL MEET THE SPECIFICATIONS LISTED IN THIS SECTION (UNLESS NOTED OTHERWISE):

   (A) FIELD CONNECTIONS FOR MAIN STRUCTURAL ELEMENTS SHALL BE MADE WITH HIGH STRENGTH BOLTS.

   (B) BOLTS SHALL BE 5/8" DIAMETER.

   (C) BOLT HOLES SHALL BE 1/16" LARGER THAN THE BOLT DIAMETER.

   (D) BOLTED CONNECTIONS SHALL BE MADE WITH A MINIMUM OF TWO BOLTS.

5. COATINGS:

   COATINGS SHALL MEET THE SPECIFICATIONS LISTED IN THIS SECTION (UNLESS NOTED OTHERWISE):

   (A) STRUCTURAL STEEL SURFACES SHALL BE PREPARED IN ACCORDANCE WITH SSPC–SP3 POWER TOOL.

   (B) STRUCTURAL STEEL, BOLTING MATERIALS, AND MISCELLANEOUS HARDWARE SPECIFIED AS GALVANIZED SHALL BE CLEANED AND HOT–DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM SPECIFICATIONS A123, A143, A153, A384, A386, B695, OR F–2329, WHICHEVER IS APPLICABLE.

   (C) FIELD CHANGES OR REPAIRS OF GALVANIZED MATERIAL SHALL BE DONE BY MEANS OF SURFACE TOLERANT EPOXY COATING, (2) COATS OF INTERSEAL 670HS AS MANUFACTURED BY INTERNATIONAL PAINT LTD OR APPROVED EQUAL.

DESIGN INFORMATION:

1. DESIGN LOADS SHALL MEET THE SPECIFICATIONS LISTED IN THIS SECTION (UNLESS NOTED OTHERWISE).

   (A) DESIGN BUILDING CODE – 2021 INTERNATIONAL RESIDENTIAL CODE (IRC)

   (B) DESIGN GRAVITY LOADS:

FIRST FLOOR	DL = 50 PSF LL = 40 PSF

   (C) WIND LOADS SHALL BE IN ACCORDANCE WITH ASCE 7–16:

   MAIN WIND FORCE RESISTING SYSTEM

PARAMETER	VALUE	REFERENCE
RISK CATEGORY	II	TABLE 1.5–1
BASIC WIND SPEED	Vult. = 140 MPH Vasd. = 108 MPH	FIGURE 26.5–1B
DIRECTIONALITY	Kd = 0.85	FIGURE 26.6–1
EXPOSURE CATEGORY	B	SECTION 26.7
TOPOGRAPHIC FACTOR	Kzt = 1.0	FIGURE 26.8–1
GUST EFFECT FACTOR	0.85	SECTION 26.9
ENCLOSURE CLASSIFICATION	ENCLOSED	SECTION 26.10
INTERNAL PRESSURE COEFFICIENT	GCpi = +/–0.18	SECTION 26.11
VELOCITY	qh = 29.85 PSF	SECTION 28.3.2

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I AM NOT OBSERVING THE WORK.

REVISIONS:

TITLE:

GENERAL STRUCTURAL NOTES

Drawn By: JRN	Checked By: JBH
Date: 03/05/25	Proj. #: 25040

S1.0B

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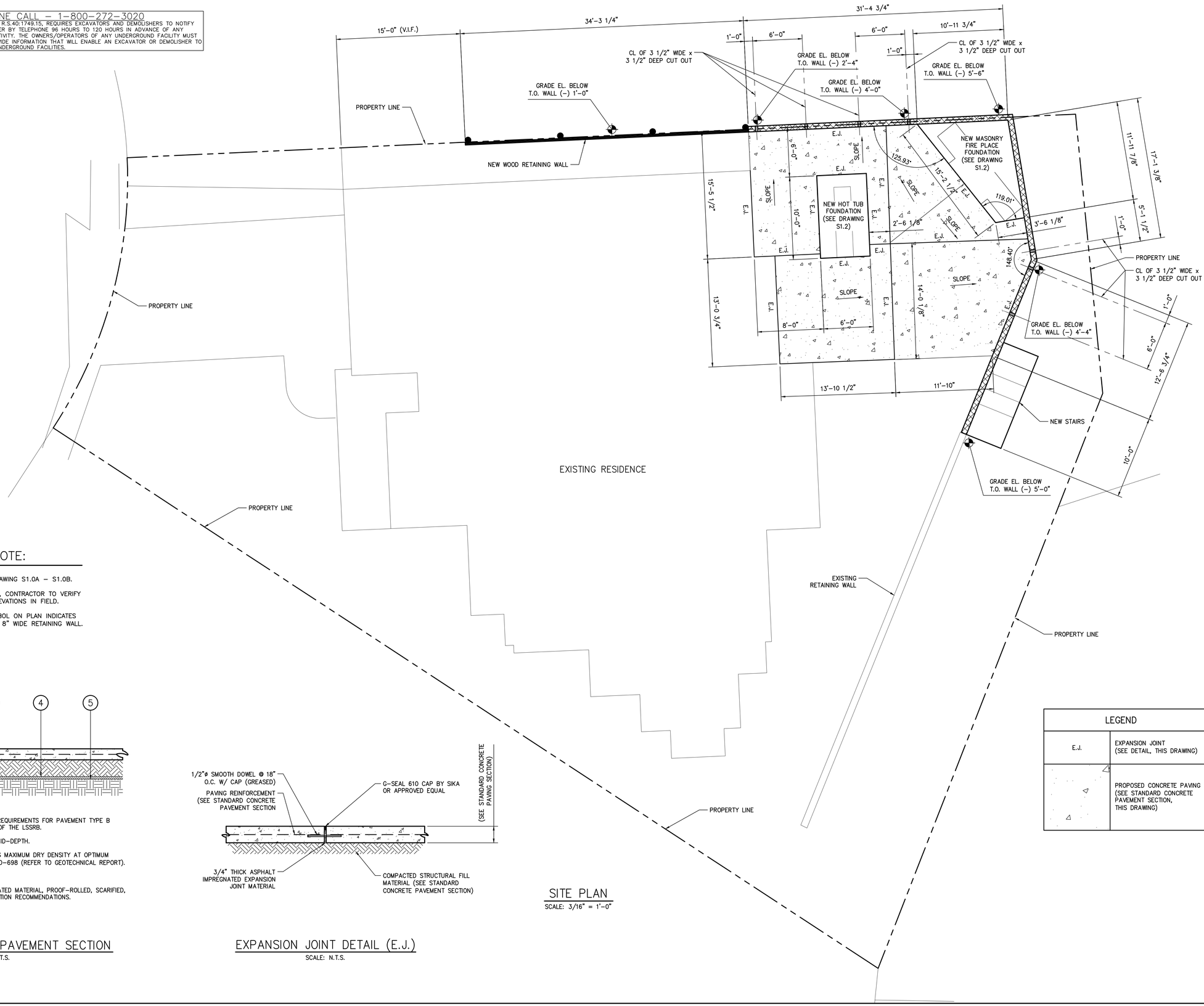
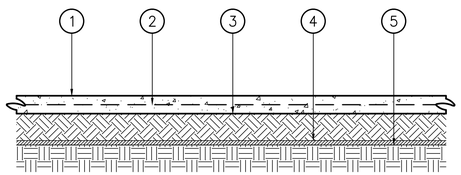
LOUISIANA STATE LAW, SECTION R.S.40:1749.15, REQUIRES EXCAVATORS AND DEMOLISHERS TO NOTIFY A REGIONAL NOTIFICATION CENTER BY TELEPHONE 96 HOURS TO 120 HOURS IN ADVANCE OF ANY EXCAVATION OR DEMOLITION ACTIVITY. THE OWNERS/OPERATORS OF ANY UNDERGROUND FACILITY MUST THEN MARK THE AREA OR PROVIDE INFORMATION THAT WILL ENABLE AN EXCAVATOR OR DEMOLISHER TO DETERMINE THE LOCATION OF UNDERGROUND FACILITIES.



PLAN NOTE:

1. FOR ALL NOTES, SEE DRAWING S1.0A – S1.0B.
2. PRIOR TO CONSTRUCTION, CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD.
3. ▨ – SYMBOL ON PLAN INDICATES NEW 8" WIDE RETAINING WALL.



1. 4" CONCRETE CONFORMING TO MATERIAL REQUIREMENTS FOR PAVEMENT TYPE B CONCRETE AS SPECIFIED IN SECTION 901 OF THE LSSRB.
2. 6x12 W7.5xW6.5 WELDED WIRE FABRIC @ MID-DEPTH.
3. COMPACTED FILL TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D-698 (REFER TO GEOTECHNICAL REPORT).
4. GEOTEXTILE FABRIC
5. NATURAL SUBGRADE OR IMPORTED EXCAVATED MATERIAL, PROOF-ROLLED, SCARIFIED, COMPACTED PER GEOTECHNICAL INVESTIGATION RECOMMENDATIONS.

STANDARD CONCRETE PAVEMENT SECTION

SCALE: N.T.S.

EXPANSION JOINT DETAIL (E.J.)

SCALE: N.T.S.

SITE PLAN

SCALE: 3/16" = 1'-0"

LEGEND	
E.J.	EXPANSION JOINT (SEE DETAIL, THIS DRAWING)
	PROPOSED CONCRETE PAVING (SEE STANDARD CONCRETE PAVEMENT SECTION, THIS DRAWING)

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I AM NOT OBSERVING THE WORK.

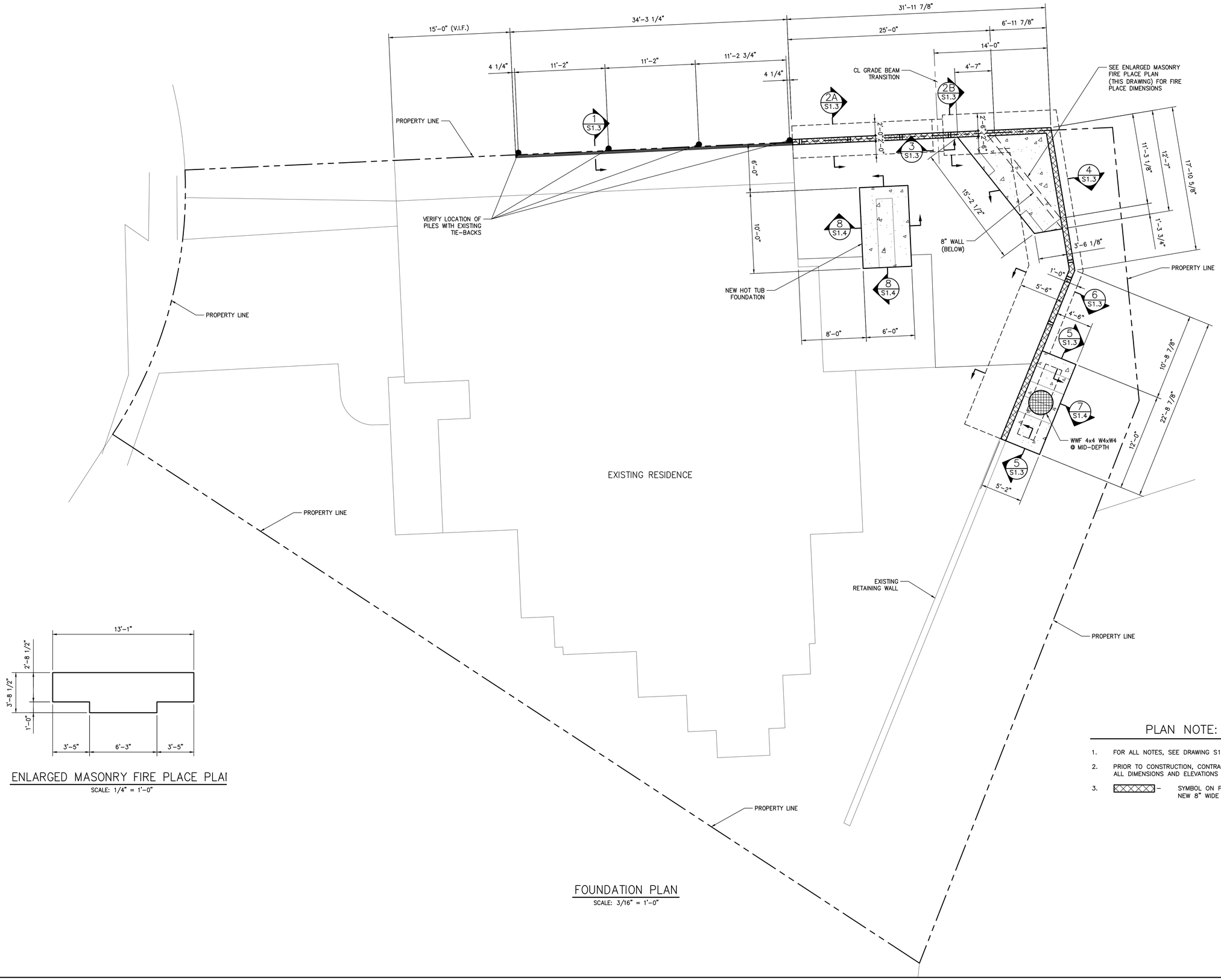
REVISIONS:

TITLE:

SITE PLAN, SECTION, AND DETAIL

Drawn By: JRN	Checked By: JBH
Date: 03/05/25	Proj. #: 25040

S1.1



FOUNDATION PLAN

SCALE: 3/16" = 1'-0"

ENLARGED MASONRY FIRE PLACE PLAI

SCALE: 1/4" = 1'-0"

PLAN NOTE:

1. FOR ALL NOTES, SEE DRAWING S1.0A – S1.0B.
2. PRIOR TO CONSTRUCTION, CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD.
3. ▨ – SYMBOL ON PLAN INDICATES NEW 8" WIDE RETAINING WALL.

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FOUNDATION PLAN

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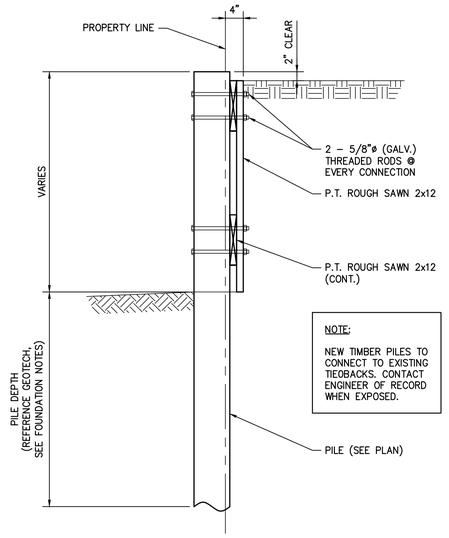
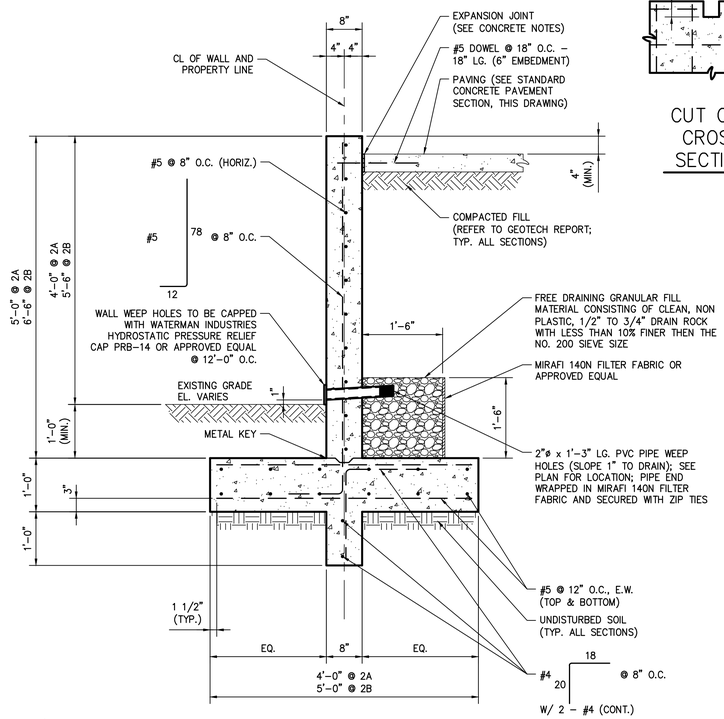
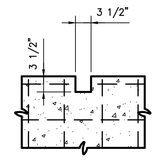
S1.2



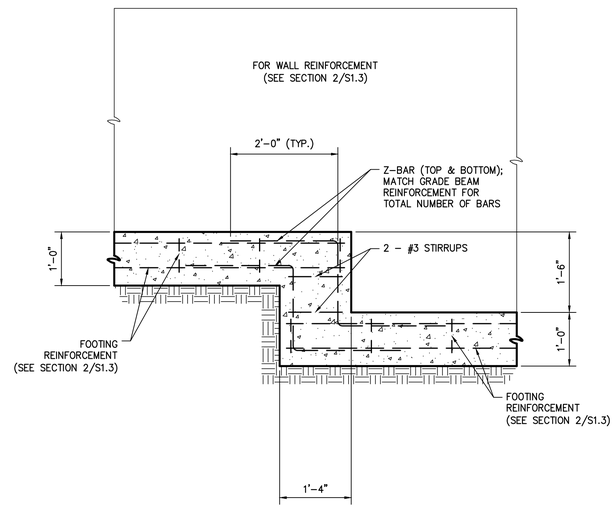
SECTION 1
SCALE: 3/4" = 1'-0" S1.2|S1.3



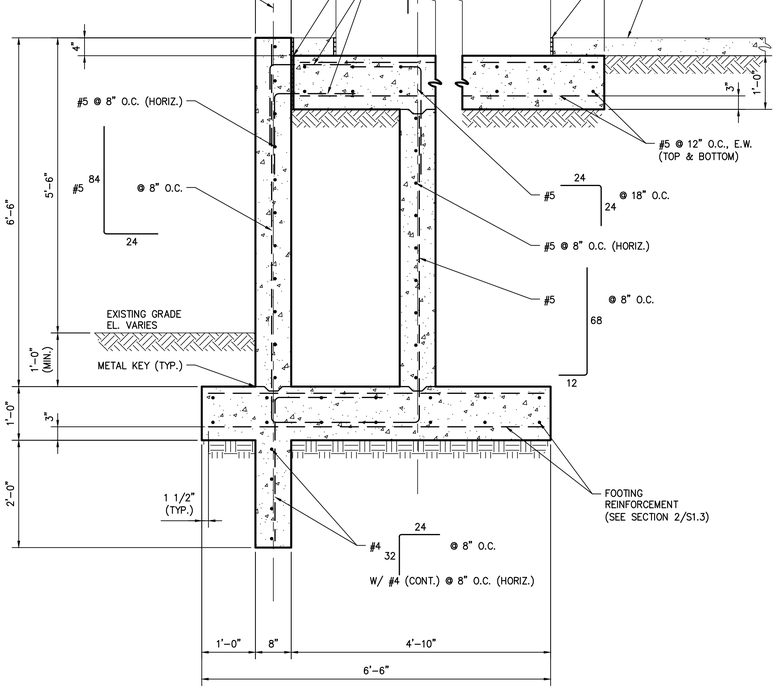
SECTION 2A 2B
SCALE: 3/4" = 1'-0" S1.2|S1.3 S1.2|S1.3



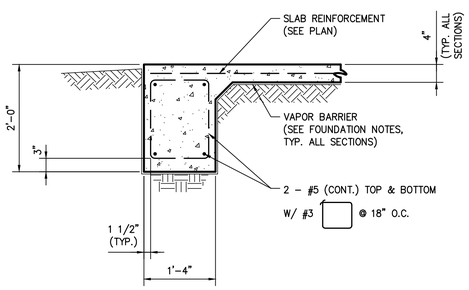
CUT OUT CROSS SECTION



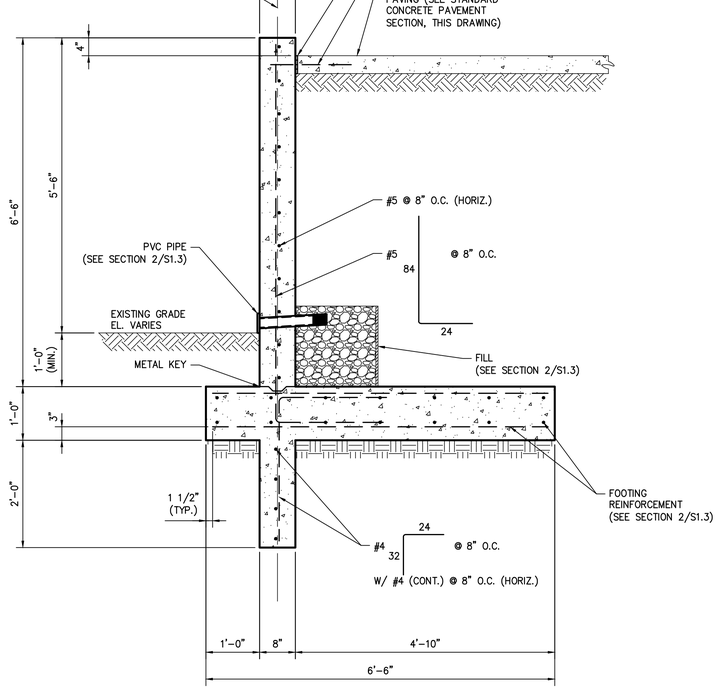
SECTION 3
SCALE: 3/4" = 1'-0" S1.2|S1.3



SECTION 4
SCALE: 3/4" = 1'-0" S1.2|S1.3



SECTION 5
SCALE: 3/4" = 1'-0" S1.2|S1.3



SECTION 6
SCALE: 3/4" = 1'-0" S1.2|S1.3

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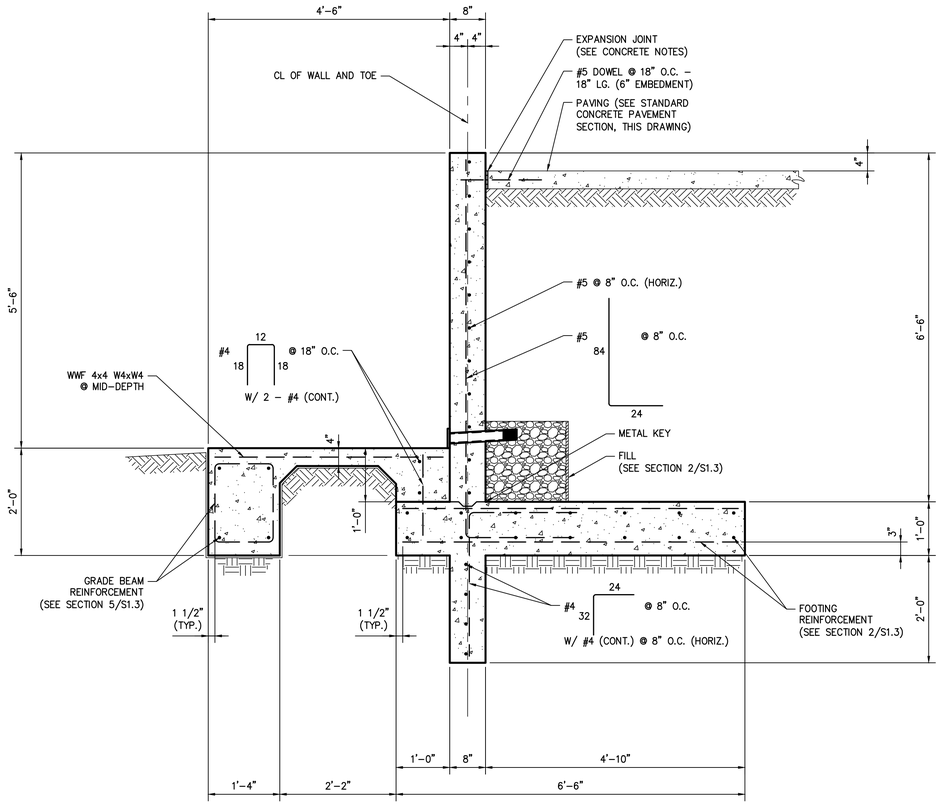
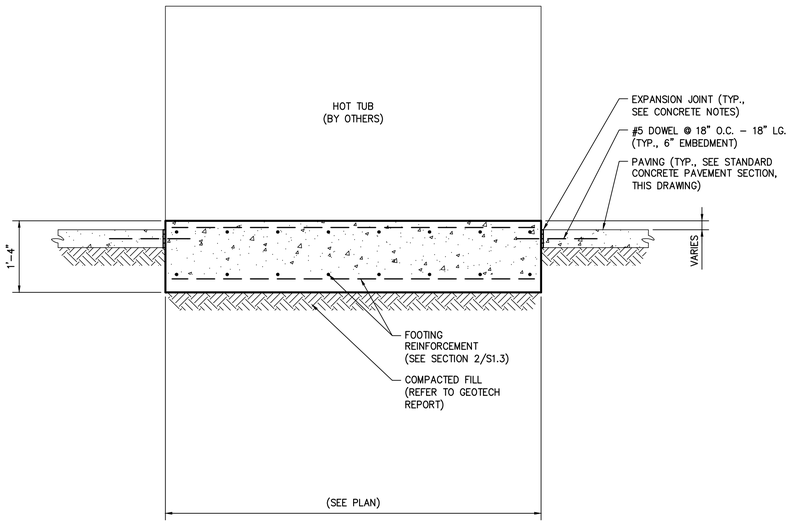
S1.3



SECTION 7
SCALE: 3/4" = 1'-0" S1.2|S1.4



SECTION 8
SCALE: 3/4" = 1'-0" S1.2|S1.4

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S1.4